# IT Asset Discovery (BDNA) Application Training Overview

June 2005

- **Introduction to BDNA**
- **BDNA Analysis Application/User Interface**
  - Data Sets
  - Reports
- **Flat File Reports**
- **Information Request CONOPS**

# Introduction to BDNA

- **Enables IT asset governance and oversight by generating near real time business intelligence of an organization's IT infrastructure**
- **Provides visibility across the enterprise**
- **BDNA can pull other discovery tools into a <u>single repository</u> to provide <u>IT asset governance</u>**
- **BDNA is an IT asset discovery tool that scans the network looking for connected/active devices**
- **Is an agent-less tool**
- **Requires network access**
- **Requires few resources**



**BDNA**

Tivoli

Cisco Works

OPNET

Open View
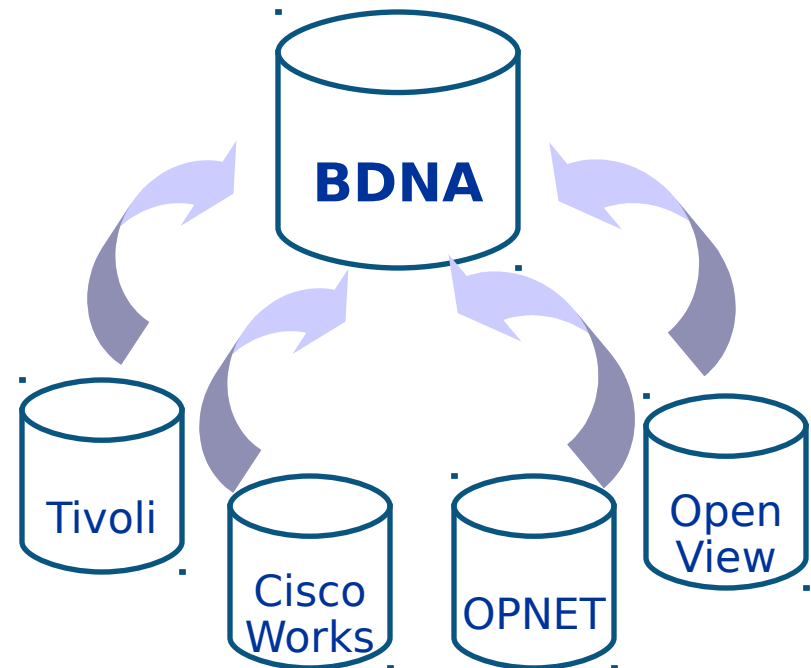
# The BDNA Process

## Discover
- Gather baseline asset information
- Non-intrusive, rapid and repeatable

## Execute
- Mobilize teams to extract value
- Achieve hard/soft savings

## Analyze
- Transform data into actionable information
- Create diverse functional views

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# BDNA Levels

| | BDNA Discovery Levels | | |
|---|---|---|---|
| **Level** | **1** | **2** | **3** |
| **Requires** | IP address range | OS user account Non-public SNMP access | Application user account |
| **Discovers** | Operating system type (Unix, Windows, etc.), network equipment, IP telephony, SAN, NAS, network services | System configuration (CPU, memory, serial number, etc.), direct attached storage, peripherals, installed software | Application usage (user counts, storage, etc.) |
| **Supports** | •Vendor rationalization •Data Center consoli-dation •Outsourcing manage-ment •Printer consolidation •Merger/divestiture support | •Vendor renegotiation •IT governance •Asset reconciliation •Standards monitoring •Configuration assurance | •Vendor renegotiation •Application consolidation •Internal audit/chargeback |

**BDNA Scan Definitions**

- **Level 1 Device Discovery & Typing - consists of network device discovery and typing.**
  - Examples:  Device: type & manufacturer; OS type; network services

- **Level 2 Systems Information - consists of gathering data on operating system-level information, including file systems.**
  - Examples:  Server details, OS type & version, machine type & model, serial number, software manufacturer and version, etc.

- **Level 3 Databases & Applications - consist of database and application-level data collection.**
  - Examples:  user accounts, storage usage, account activity
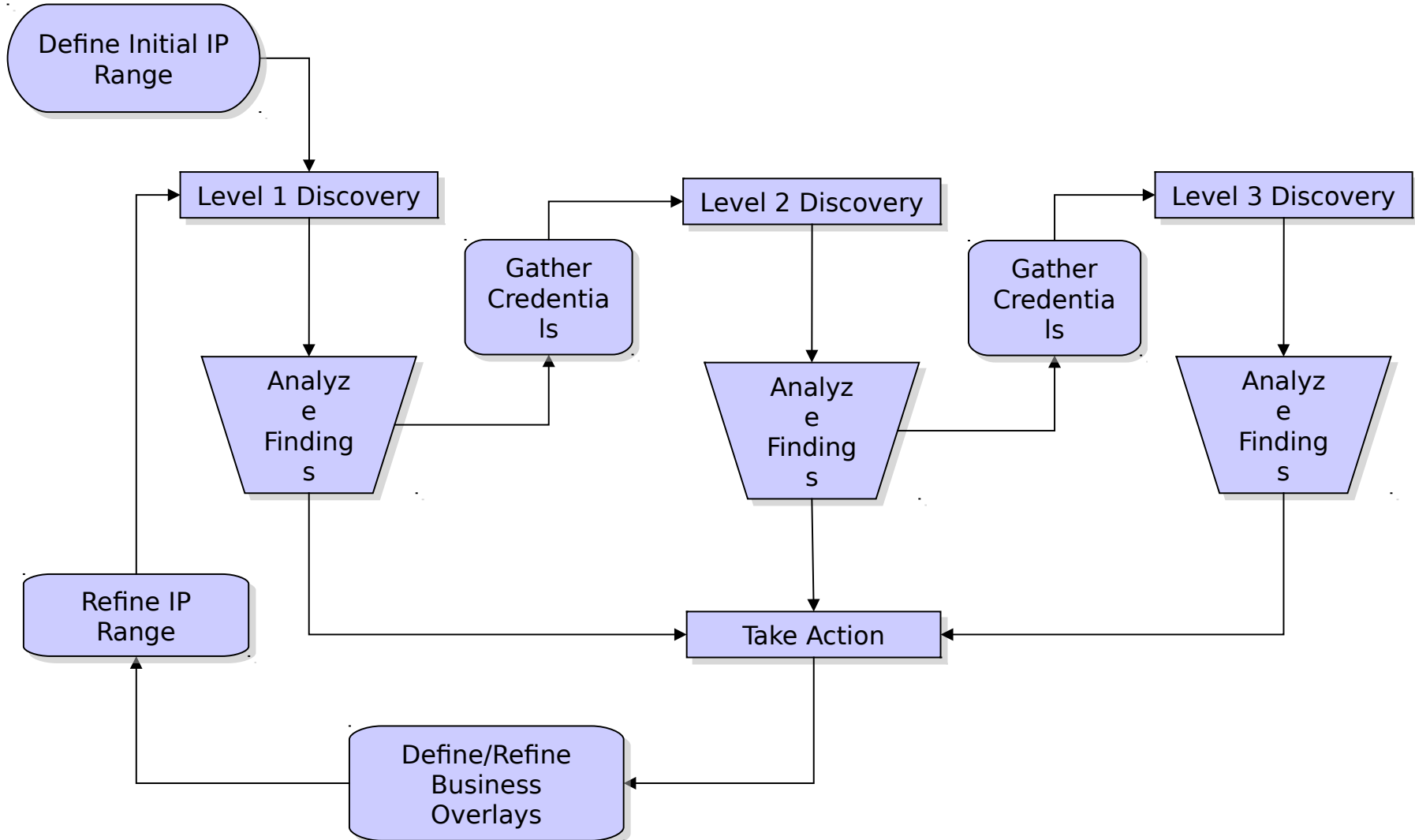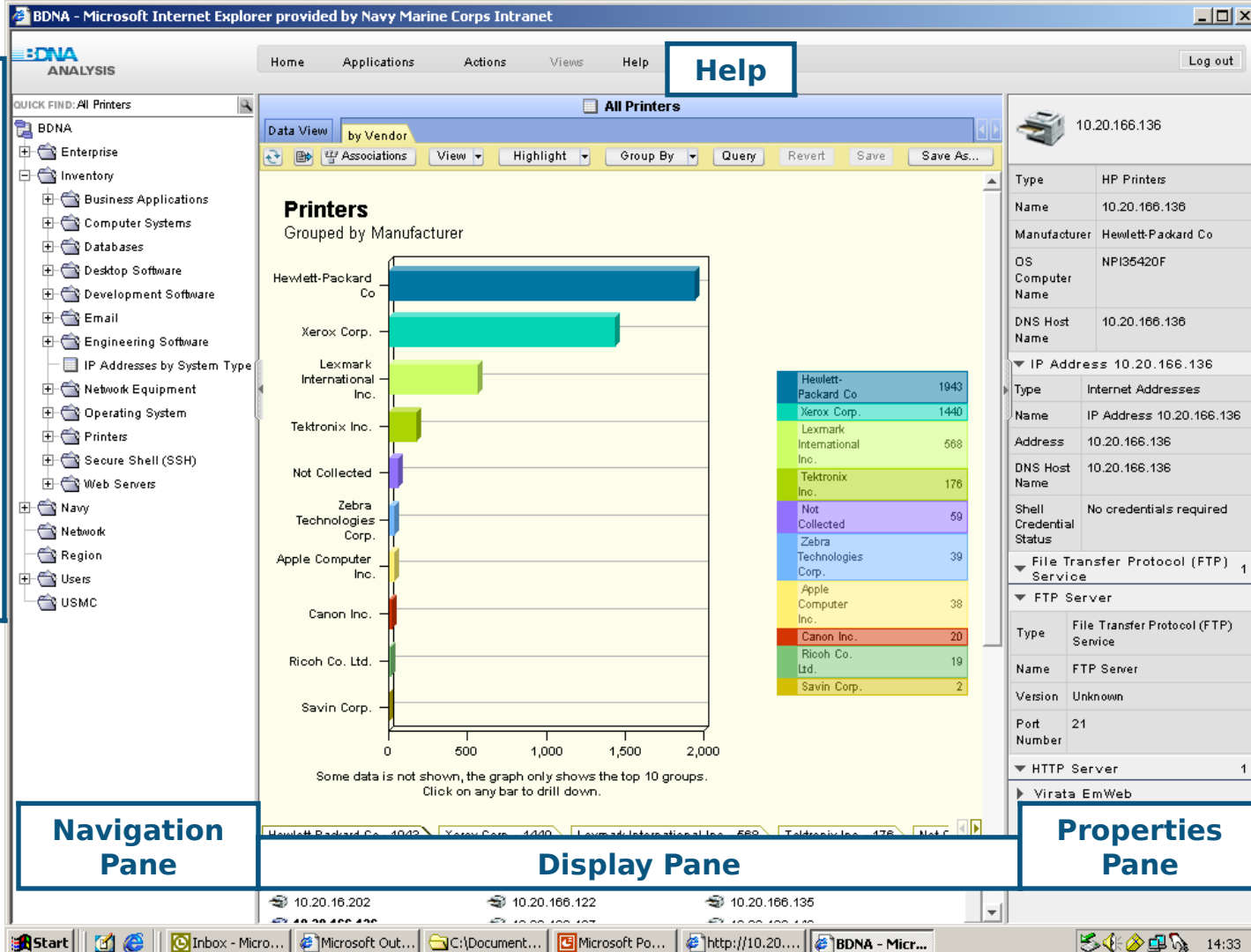
# *Potential Uses of BDNA Data*

- **Vendor audit for renegotiation**
- **Standards management**
- **Legacy migration and consolidation**
- **Invoice reconciliation**
- **Security remediation**
- **Etc...**

# BDNA Analysis Application

# *Analysis Application Framework*

# Analysis Application Framework

- **Help**
  - Contains an overview of BDNA and links to useful Help topics
- **Folders**
  - Ordered groups or categories of data sets and reports
    - Inventory folder – Standard data sets and reports
    - Enterprise, Navy, USMC, Network, Region folders – Standard data sets and reports
    - Users folder - Individual users can create their own data sets and reports
- **Navigation Pane**
  - Appears on the left in the Analysis application.  Used to locate and display data sets and reports.
- **Display Pane**
  - Appears in the middle of the Analysis application and is used to display reports in various views.
- **Properties Pane**
  - Opens on the right and provides information about a selected asset, such as IP addresses and version numbers.

# *Analysis Application Definitions*

- **Data Sets**
  - A data set is a subset of data collected by the BDNA tool.
  - Each user can create their own data sets.
  - A user can create as many data sets as they wish.
  - A data set is located within a folder in the navigation pane or it is a node on the tree.
  - Examples of data sets may be UNIX systems, Oracle databases, printers, etc.
  - Users may create multiple reports from each of their data sets.
  - Initial data sets/reports may take a while to create, but once created subsequent data sets/reports will not take long to run

- **Reports**
  - Reports represent different views into the same data set and are presented as tabs within the display pane.

# BDNA Flat File Reports

# Using Flat File Reports for Data

- **Rationale**

  BDNA provides a simple utility for generating tab separated reports of frequently used information from the BDNA repository.  While the BDNA Analytics UI provides an export capability, these reports are designed to dump an entire repository into a format suitable for out of system analysis (Excel, Access, etc.).

- **Report Format**

  Typically, the flat file reports are broken into Level 1, Level 2 and Level 3 reports.  The reports are all self-explanatory, though some may be empty if the Level of access has not been granted.

- **Access to Reports**

  These reports are ONLY to be run by the BDNA administrator and the data should be protected properly once extracted.

- **General**
  - **summary.txt** – A quick way to see high level results of the scan, such as total machines found, Windows/Unix breakdown, Level 2 access breakdown, etc. This report is not tab delimited and should be opened with Wordpad or NotePad.

- **Important Level 1 Reports**
  - **typing_ratios.tab** – Provides the percentage of devices that were successfully identified during Level 1 scan by network
  - **flat_hosts_with_services.tab** – Provides a list of critical network services discovered by host
  - **Printers.tab –** Provides a list of Printers by vendor along with Model, Serial Number, Memory, Current Page Count, Duplex or not
  - **Peripherals.tab –** Provides host and associated peripheral information such as Serial Number, Vendor, Memory, etc.

# *Understanding Flat File Reports: Level 2 and 3*

- **Important Level 2 Reports**
  - **host_stats.tab** – Provides hardware details of assets discovered at Level 2.  Note that this report is initially populated at Level 1; however, many fields are blank since Level 2 access is required for many of the reported attributes
  - **app_installs.tab** – A listing of application installations by host, including Install Directory and version
  - **file system stats.tab** – a listing of file systems by type found on machines, including used and free bytes
  - **user login detail.tab** – Provides a list of all usernames, # of logins and date of last login
  - **App Specific reports**
    - **Oracle** – Several reports showing different information about Oracle databases – installations, instances, databases, etc.
    - **BEA** – Provides information about BEA products including install directory and version, license key and type,  CPUs licensed and actual,  etc.
    - **Rational** – Provides information on Rational products including License server, # of licenses and actual licenses used, etc.
    - **Veritas** – Provides information on Veritas App, Install Date, etc.

# *Information Request CONOPS*

- **How to submit an Information Request**
- **An Information Request is defined as a:**
  - Request for existing data
  - Request for additional data
  - Request for additional metadata
- **Submit an information request via email to PEO-IT:**
  - _____@navy.mil
  - FirstName LastName
  - 703-601-3064
- **For existing data: an estimated delivery date will be provided to you followed by the fulfillment of your request**
- **For additional data or metadata: your request will be sent to a decision-making committee and you will be updated on the status of your request**